

CLAIMS

1. An information recording medium, comprising:

at least two blocks of independently readable user recording blocks, and at least one block of the user recording blocks being an unreadable restricted block;

ones of the recording blocks having physical address data arranged thereon, the physical address data being made up of a code indicative of an address number and an address error detection code for verifying the correctness of the address number,

wherein the code indicative of the address number is mismatched with the address error detection code for verifying the correctness of the address number in the restricted block.

2. The information recording medium according to Claim 1, wherein the information recording medium is at least one of: an optical recording medium, a CD (compact disk) optical recording medium, CD-ROM (read only memory) optical recording medium, a DVD (digital versatile disk) optical recording medium, a DVD-RAM (random access memory) optical recording medium, a DVD-ROM optical recording medium, a MO (magneto-optic) optical recording medium, a WORM (write once, read many) optical recording medium, a MO-WORM optical recording medium, and a CCW (continuous composite write) optical recording medium.

3. An information recording medium, comprising:

at least two blocks of independently readable user recording blocks, and at least one block of the user recording blocks being an unreadable restricted block;

ones of the recording blocks having physical address data arranged thereon, the physical address data being made up of a code indicative of an address number and an address error detection code for verifying the correctness of the address number,

wherein the address number indicated by the physical address data is different from the address number of the restricted block in the restricted block.

4. The information recording medium according to Claim 3, wherein the information recording medium is at least one of: an optical recording medium, a CD (compact disk) optical recording medium, CD-ROM (read only memory) optical recording medium, a DVD (digital versatile disk) optical recording medium, a DVD-RAM (random access memory) optical recording medium, a DVD-ROM optical recording medium, a MO (magneto-optic) optical recording medium, a WORM (write once, read many) optical recording medium, a MO-WORM optical recording medium, and a CCW (continuous composite write) optical recording medium.

5. An information recording medium, comprising:
at least two blocks of independently readable user recording blocks, and at least one block of the user recording blocks being an unreadable restricted block;
wherein the user recording block is an error correction code block including a plurality of user sectors,
wherein the user sectors individually have independent address numbers, and all the user recording blocks to which the user sectors having the smallest 257 numbers of the address numbers belong are at least unreadable restricted blocks.

6. The information recording medium according to Claim 5, wherein the user sectors individually have independent address numbers, and all the user recording blocks to which the user sectors having the smallest 513 numbers of the address numbers belong are at least unreadable restricted blocks.

7. The information recording medium according to Claim 5, wherein all the user recording blocks to which the user sectors having the largest 257 numbers of the address numbers belong are at least unreadable restricted blocks.

8. The information recording medium according to Claim 5, wherein the information recording medium is at least one of: an optical recording medium, a CD (compact disk) optical recording medium, CD-ROM (read only memory) optical recording medium, a DVD (digital versatile disk) optical recording medium, a DVD-RAM (random access memory) optical recording medium, a DVD-ROM optical recording medium, a MO (magneto-optic) optical recording medium, a WORM (write once, read many) optical recording medium, a MO-WORM optical recording medium, and a CCW (continuous composite write) optical recording medium.

9. An information recording medium, comprising:
at least two blocks of independently readable user recording blocks, and at least one block of the user recording blocks being an unreadable restricted block;
wherein a total number of the restricted blocks on the information recording medium is set to be larger than a total number of the recording blocks registrable in a defect management table.

10. The information recording medium according to Claim 9, wherein the information recording medium is at least one of: an optical recording medium, a CD (compact disk) optical recording medium, CD-ROM (read only memory) optical recording medium, a DVD (digital versatile disk) optical recording medium, a DVD-RAM (random access memory) optical recording medium, a DVD-ROM optical recording medium, a MO (magneto-optic) optical recording medium, a WORM (write once, read many) optical recording medium, a MO-WORM optical recording medium, and a CCW (continuous composite write) optical recording medium.

11. A system comprising:

an information recording medium drive having mechanical components to at least one of: produce, read and write an information recording medium having at least one restricted block; and

at least one information recording medium including:

at least two blocks of independently readable user recording blocks, and at least one block of the user recording blocks being an unreadable restricted block;

ones of the recording blocks having physical address data arranged thereon, the physical address data being made up of a code indicative of an address number and an address error detection code for verifying the correctness of the address number,

wherein the code indicative of the address number is mismatched with the address error detection code for verifying the correctness of the address number in the restricted block.

12. The system according to Claim 11, wherein the information recording medium is at least one of: an optical recording medium, a CD (compact disk) optical recording medium, CD-ROM (read only memory) optical recording medium, a DVD (digital versatile disk) optical recording medium, a DVD-RAM (random access memory) optical recording medium, a DVD-ROM optical recording medium, a MO (magneto-optic) optical recording medium, a WORM (write once, read many) optical recording medium, a MO-WORM optical recording medium, and a CCW (continuous composite write) optical recording medium.

13. A system comprising:

an information recording medium drive having mechanical components to at least one of: produce, read and write an information recording medium having at least one restricted block; and

at least one information recording medium including:

at least two blocks of independently readable user recording blocks, and at least one block of the user recording blocks being an unreadable restricted block;

ones of the recording blocks having physical address data arranged thereon, the physical address data being made up of a code indicative of an address number and an address error detection code for verifying the correctness of the address number,

wherein the address number indicated by the physical address data is different from the address number of the restricted block in the restricted block.

14. The system according to Claim 13, wherein the information recording medium is at least one of: an optical recording medium, a CD (compact disk) optical recording medium, CD-ROM (read only memory) optical recording medium, a DVD (digital versatile disk) optical recording medium, a DVD-RAM (random access memory) optical recording medium, a DVD-ROM optical recording medium, a MO (magneto-optic) optical recording medium, a WORM (write once, read many) optical recording medium, a MO-WORM optical recording medium, and a CCW (continuous composite write) optical recording medium.

15. A system comprising:

- an information recording medium drive having mechanical components to at least one of: produce, read and write an information recording medium having at least one restricted block; and
- at least one information recording medium including:
 - at least two blocks of independently readable user recording blocks, and at least one block of the user recording blocks being an unreadable restricted block;
 - wherein the user recording block is an error correction code block including a plurality of user sectors,
 - wherein the user sectors individually have independent address numbers, and all the user recording blocks to which the user sectors having the smallest 257 numbers of the address numbers belong are at least unreadable restricted blocks.

16. The system according to Claim 15, wherein the user sectors individually have independent address numbers, and all the user recording blocks to which the user sectors having the smallest 513 numbers of the address numbers belong are at least unreadable restricted blocks.

17. The system according to Claim 15, wherein all the user recording blocks to which the user sectors having the largest 257 numbers of the address numbers belong are at least unreadable restricted blocks.

18. The system according to Claim 15, wherein the information recording medium is at least one of: an optical recording medium, a CD (compact disk) optical recording medium, CD-ROM (read only memory) optical recording medium, a DVD (digital versatile disk) optical recording medium, a DVD-RAM (random access memory) optical recording medium, a DVD-ROM optical recording medium, a MO (magneto-optic) optical recording medium, a WORM (write once, read many) optical recording medium, a MO-WORM optical recording medium, and a CCW (continuous composite write) optical recording medium.

19. A system comprising:
an information recording medium drive having mechanical components to at least one of: produce, read and write an information recording medium having at least one restricted block; and
at least one information recording medium including:

at least two blocks of independently readable user recording blocks, and at least one block of the user recording blocks being an unreadable restricted block;

wherein a total number of the restricted blocks on the information recording medium is set to be larger than a total number of the recording blocks registrable in a defect management table.

20. The system according to Claim 19, wherein the information recording medium is at least one of: an optical recording medium, a CD (compact disk) optical recording medium, CD-ROM (read only memory) optical recording medium, a DVD (digital versatile disk) optical recording medium, a DVD-RAM (random access memory) optical recording medium, a DVD-ROM optical recording medium, a MO (magneto-optic) optical recording medium, a WORM (write once, read many) optical recording medium, a MO-WORM optical recording medium, and a CCW (continuous composite write) optical recording medium.